



**F-28/36<sup>1</sup>**  
 Aluminum Rotor  
 12-Place, 36 ml  
 Tube Dimensions: 25 × 97 mm  
 Fixed-Angle: 23.5°  
 Maximum Speed: 28,000 rpm  
 K Factor: 198  
 Rotor Mass: 8.9 kg  
 Autoclavable: 121°C

	RCF (g)	R (cm)
Max.	100,096	11.43
Min.	54,120	6.18

For use in RC-28S, RC-26 Plus, RC-24<sup>2</sup>, RC-5C Plus, RC-5C<sup>2</sup>, RC-5B Plus, RC-5B<sup>2</sup>, RC-5<sup>2</sup>, RC-2B<sup>2</sup>

**B-1**

Basic Catalog No. 11940	Complete Catalog No. 11941	Accessories
Includes: F-28/36 Rotor Vacuum Grease <b>65937</b> Lubricant <b>61556</b> Rotor Cover Assembly <b>11954</b> Rotor Cover O-ring (6 supplied) <b>69474</b> Locking Knob O-ring (6 supplied) <b>67745</b> Centerhole O-ring (6 supplied) <b>67908</b> Retaining Ring Pliers <b>65614</b> Rotor Extractor <b>01031</b> Instruction Manual <b>11950</b>	Includes Basic Catalog <b>11940</b> Plus: ULTRACRIMP® Tubes, Polyallomer 35 ml (8 pkgs, 25/pkg) <b>03989<sup>3</sup></b> Rotor Cap (12 supplied) <b>03996</b> Tube Racks (1 pkg, 2/pkg) <b>03935</b> ULTRACRIMP® and CLEARCRIMP® Tube Removal Tool <b>12826</b>	ULTRACRIMP® and CLEARCRIMP® Sealing Tool and Crimp Gauge <b>03920</b> Crimp Gauge, Replacement <b>03919</b> ULTRACRIMP® and CLEARCRIMP® Plugs and Caps, (1 pkg, 25/pkg) <b>03999</b> Tool Kit (for 12.5 ml Multipiece Sealing Assembly) <b>52609</b> . Includes: Tube Cap Vise <b>52176</b> , Tube Removal Tool <b>52177</b> , Torque Wrench <b>52881</b> , 7/16-inch Socket <b>52882</b> Tool Kit (for 36 ml Multipiece Sealing Assembly) <b>52610</b> . Includes: Tube Cap Vise <b>51834</b> , Tube Removal Tool <b>52013</b> , Tube Cap Wrench <b>66298</b> Software Update Kit for RC-5C <sup>4</sup> <b>12814</b>

**TUBES, BOTTLES**

< See page B-3 for Rotor to Centrifuge cross reference >

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOMINAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
36	33	Polyallomer Thin-Walled Tube	28,000	25 × 89	<b>03141</b> (25)	<b>52572</b> (1)	Multipiece, Aluminum	—	—	Requires Tool Kit <b>52610</b> .
35	35	Polyallomer ULTRACRIMP® Tube	28,000	25 × 97	<b>03989</b> (25)	Included with tubes	Plug and Aluminum Cap	—	—	Requires Rotor Cap <b>03996</b> , Tube Racks <b>03935</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> .
30	28	Polycarbonate Oak Ridge Bottle	28,000	25 × 94	<b>03719</b> (25)	<b>03614</b> (25)	Nylon, Screw Cap	—	—	
30	28	Polypropylene Oak Ridge Bottle	28,000	25 × 94	<b>03718</b> (25)	<b>03614</b> (25)	Nylon, Screw Cap	—	—	Maximum speed is 21,000 rpm when partially filled.
12.5	11.8	Polyallomer Thin-Walled Tube	28,000	16 × 76	<b>03128</b> (50)	<b>52178</b> (1)	Multipiece, Aluminum	<b>ME02210</b> (4)	1	Requires Tool Kit <b>52609</b> . Adapter also available in pkg. of 1 <b>00613</b> .
11.5	11.5	Polyallomer ULTRACRIMP® Tube	28,000	16 × 76	<b>03987</b> (50)	Included with tubes	Plug and Aluminum Cap	<b>ME02210</b> (4)	1	Requires Rotor Cap <b>03993</b> , Tube Racks <b>03922</b> , and ULTRACRIMP® Sealing Tool <b>03920</b> . Adapter also available in pkg. of 1 <b>00613</b> .
11.5	11.5	Polyethylene-terephthalate CLEARCRIMP® Tube	28,000	16 × 76	<b>01087</b> (50)	Included with tubes	Plug and Aluminum Cap	<b>ME02210</b> (4)	1	Requires Rotor Cap <b>03993</b> , Tube Racks <b>03922</b> , and ULTRACRIMP® Sealing Tool <b>03920</b> . Adapter also available in pkg. of 1 <b>00613</b> .

(continued on next page)

<sup>(1)</sup>This rotor/cover assembly has been tested for microbiological containment (Ref. 1) by PHLS-CAMR, Porton Down. Suitable for use with materials up to ACDP category 3 (Ref. 2). Seal integrity may be affected by improper use or maintenance.

<sup>(2)</sup>Instrument no longer available.

<sup>(3)</sup>Tubes supplied with equal number of plugs and caps.

<sup>(4)</sup>Contact your SORVALL® representative to determine your need for a Software Update Kit.

\*Sealing Assembly replacement parts may be available. See section E for availability.

**TUBES, BOTTLES FOR F-28/36** (continued)

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOMINAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
10	6.8	Polyallomer Thick-Walled Tube	28,000	16 × 71	<b>03238</b> (50)	—	—	<b>02210</b> (4)	1	Adapter also available in pkg. of 1 <b>00613</b> .
10	6.8	Polycarbonate Thick-Walled Tube	28,000	16 × 71	<b>03237</b> (50)	—	—	<b>02210</b> (4)	1	Adapter also available in pkg. of 1 <b>00613</b> .
10	9.1	Polypropylene Oak Ridge Bottle	28,000	16 × 80	<b>03929</b> (50)	<b>03613</b> (25)	Nylon, Screw Cap	<b>02210</b> (4)	1	Adapter also available in pkg. of 1 <b>00613</b> . Maximum speed is 21,000 rpm when partially filled.
10	9.7	Polycarbonate Oak Ridge Bottle	28,000	16 × 80	<b>03020</b> (25)	<b>03613</b> (25)	Nylon, Screw Cap	<b>02210</b> (4)	1	Adapter also available in pkg. of 1 <b>00613</b> .
6	5.7	Polyallomer ULTRACRIMP® Tube	28,000	13 × 66	<b>03945</b> (50)	Included with tubes	Plug and Aluminum Cap	<b>02209</b> (4)	1	Requires Rotor Cap <b>03992</b> , Tube Racks <b>03921</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> . Adapter also available in pkg. of 1 <b>00612</b> .
6	5.7	Polyethylene-terephthalate CLEARCRIMP® Tube	28,000	13 × 66	<b>01086</b> (50)	Included with tubes	Plug and Aluminum Cap	<b>02209</b> (4)	1	Requires Rotor Cap <b>03992</b> , Tube Racks <b>03921</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> . Adapter also available in pkg. of 1 <b>00612</b> .
4.4	3.3	Polyallomer Thin-Walled Tube	28,000	11 × 60	<b>03955</b> (50)	<b>54366</b> (1)	Multipiece, Selfseal	<b>02208</b> (4)	1	Requires Tube Cap Vise <b>52176</b> and Tube Removal Tool <b>11538</b> . Adapter also available in pkg. of 1 <b>00611</b> .
4.4	2.7	Polycarbonate Threaded Thick-Walled Tube	28,000	11 × 60	<b>54361</b> (50)	<b>54365</b> (1)	Aluminum, Screw Cap	<b>02208</b> (4)	1	Requires Tube Cap Vise <b>54377</b> and Tube Removal Tool <b>11538</b> . Adapter also available in pkg. of 1 <b>00611</b> .
3.5	3.5	Polyallomer ULTRACRIMP® Tube	28,000	11 × 60	<b>03905</b> (50)	Included with tubes	Plug and Aluminum Cap	<b>02208</b> (4)	1	Requires Tube Cap <b>03091</b> , Tube Racks <b>03773</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> . Adapter also available in pkg. of 1 <b>00611</b> .
1.5	—	Microtube	—	—	—	—	—	<b>02206</b> (4)	1	Adapter also available in pkg. of 1 <b>00609</b> .

\*Sealing Assembly replacement parts may be available. See section E for availability.

**B-1**